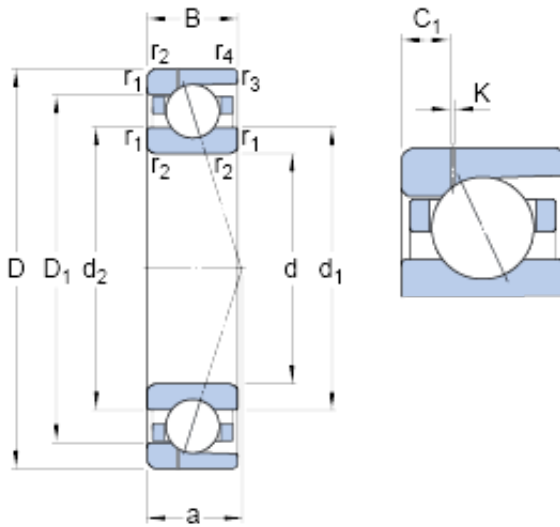




NTN Bearing Rolamentos do Brasil Ltda.



140 mm x 210 mm x 33 mm skf 7028
ACD/P4AH1 Super-precision Angular contact ball bearings

Bearing No. 7028 ACD/P4AH1

7028 ACD/P4AH1 Bearing 2D drawings and 3D CAD models

Size	210x140x33 mm
Bore Diameter	210 mm
Outer Diameter	140 mm
Width	33 mm
d	140 mm
D	210 mm
B	33 mm
d ₁	161.6 mm
d ₂	161.6 mm
D ₁	188.4 mm
K	0.5 mm
C ₁	8.9 mm
r _{1,2} - min.	2 mm
r _{3,4} - min.	1 mm
a	57.5 mm
d _a - min.	149 mm
d _b - min.	149 mm
D _a - max.	201 mm
D _b - max.	205 mm
r _a - max.	2 mm
r _b - max.	1 mm
d _n	166.3 mm
Basic dynamic load rating - C	146 kN



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Basic static load rating - C_0	156 kN
Fatigue load limit - P_u	5.1 kN
Limiting speed for grease lubrication	5600 r/min
Limiting speed for oil lubrication	8500 mm/min
Ball - D_w	22.225 mm
Ball - z	22
G_{ref}	45 cm ³
Calculation factor - e	0.68
Calculation factor - Y_2	0.87
Calculation factor - Y_0	0.38
Calculation factor - X_2	0.41
Calculation factor - Y_1	0.92
Calculation factor - Y_2	1.41
Calculation factor - Y_0	0.76
Calculation factor - X_2	0.67
Preload class A - G_A	900 N
Preload class B - G_B	1800 N
Preload class C - G_C	3600 N
Preload class D - G_D	7200 N
Calculation factor - f	1.16
Calculation factor - f_1	0.99
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2C}	1.05
Calculation factor - f_{2D}	1.08
Calculation factor - f_{HC}	1
Preload class A	364 N/micron



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Preload class B	477 N/micron
Preload class C	633 N/micron
Preload class D	856 N/micron
d_1	161.6 mm
d_2	161.6 mm
D_1	188.4 mm
C_1	8.9 mm
$r_{1,2}$ min.	2 mm
$r_{3,4}$ min.	1 mm
d_a min.	149 mm
d_b min.	149 mm
D_a max.	201 mm
D_b max.	205 mm
r_a max.	2 mm
r_b max.	1 mm
d_n	166.3 mm
Basic dynamic load rating C	146 kN
Basic static load rating C_0	156 kN
Fatigue load limit P_u	5.1 kN
Attainable speed for grease lubrication	5600 r/min
Attainable speed for oil-air lubrication	8500 r/min
Ball diameter D_w	22.225 mm
Number of balls z	22
Reference grease quantity G_{ref}	45 cm ³
Preload class A G_A	900 N
Static axial stiffness, preload class A	364 N/ μ m
Preload class B G_B	1800 N
Static axial stiffness, preload class B	477 N/ μ m
Preload class C G_C	3600 N



NTN Bearing Rolamentos do Brasil Ltda.

Static axial stiffness, preload class C	633 N/ μ m
Preload class D G_D	7200 N
Static axial stiffness, preload class D	856 N/ μ m
Calculation factor f	1.16
Calculation factor f_1	0.99
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.02
Calculation factor f_{2C}	1.05
Calculation factor f_{2D}	1.08
Calculation factor f_{HC}	1
Calculation factor e	0.68
Calculation factor (single, tandem) Y_2	0.87
Calculation factor (single, tandem) Y_0	0.38
Calculation factor (single, tandem) X_2	0.41
Calculation factor (back-to-back, face-to-face) Y_1	0.92
Calculation factor (back-to-back, face-to-face) Y_2	1.41
Calculation factor (back-to-back, face-to-face) Y_0	0.76
Calculation factor (back-to-back, face-to-face) X_2	0.67
Mass bearing	3.42 kg